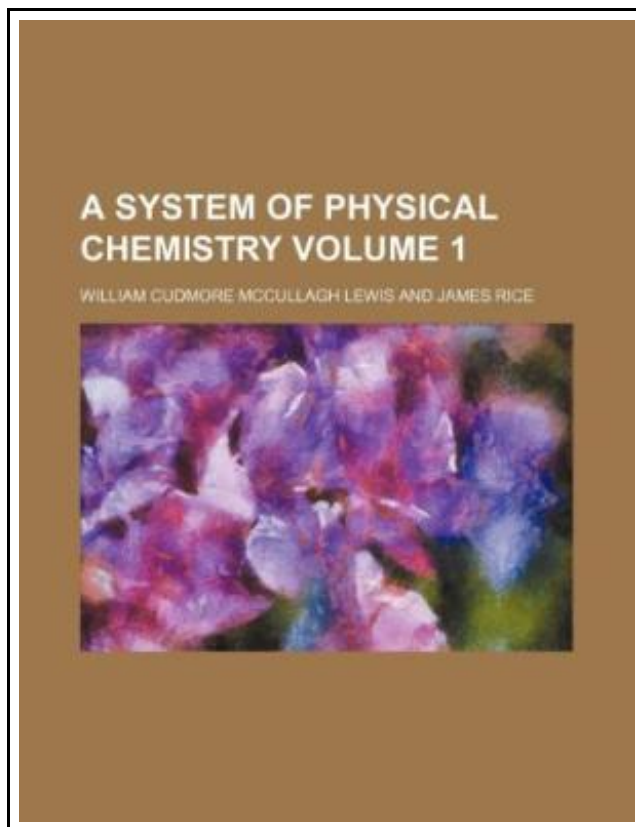


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Rarebooksclub.com, United States, 2012. Paperback. Book Condition: New. 246 x 189 mm. Language: English . Brand New Book ***** Print on Demand *****.This historic book may have numerous typos and missing text. Purchasers can download a free scanned copy of the original book (without typos) from the publisher. Not indexed. Not illustrated. 1921 Excerpt: . Diffusion and Osmotic Pressure.--Suppose the cylindrical vessel 2 filled with a dilute solution (Fig. 5). The internal space is divided into Z P Pi two parts by means of a semi-permeable movable piston, the piston being entirely permeable to the solvent but impermeable to the solute. If the concentration of solute in A is greater than that in B, there will be a force exerted upon the piston tending to move it towards the right. This force, reckoned per unit area of the piston, will be denoted by K. K evidently is the difference of the osmotic pressures exerted by the solute on the two sides of the piston. If no external force be applied, the piston will move towards the right until the concentrations in both compartments become identical. It follows therefore that osmotic pressure is the agency causing diffusion until equi-concentration is reached; for we can prevent this state being reached by balancing the osmotic pressure difference K by means of an external force applied to the piston. Suppose now that there is no piston in the cylinder, but 1 The section which follows is a translation (with certain changes) of a paper by Einstein in the Zeitsch. fur Elektrochem., 14, 235-239, 1908, entitled Elementary Theory of the Brownian Movement. The more rigid mathematical treatment is given in the Annalen papers referred to. that the concentration on the left-hand side is greater than on the right, then diffusion of the solute will take...



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